(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 21 October 2004 (21.10.2004)

PCT

(10) International Publication Number WO 2004/089443 A1

(51) International Patent Classification7: B01F 1/00, B01J 4/00

A61M 1/16,

(21) International Application Number:

PCT/SE2004/000558

(22) International Filing Date:

7 April 2004 (07.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0301022-0 60/461,658

7 April 2003 (07.04.2003) 7 April 2003 (07.04.2003) US

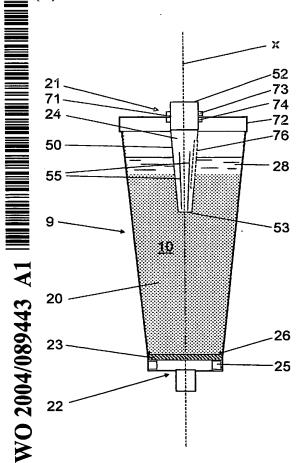
- (71) Applicant (for all designated States except US): GAM-BRO LUNDIA AB [SE/SE]; Magistratsvägen 16, P.O. Box 10101, S-220 10 Lund (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LORENTZON,

Jan-Olof [SE/SE]; Böle 139, S-380 30 Rockneby (SE). LOSELL, Ingvar [SE/SE]; Cymbalvägen 20, S-245 42 Staffanstorp (SE). TRYGGVASON, Ragnar [SE/SE]; Dösvägen 13, S-240 21 Löddeköpinge (SE).

- (74) Agents: BJERKENS PATENTBYRÅ KB et al.; Östermalmsgatan 58, S-114 50 Stockholm (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, 7W
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A DEVICE FOR USE IN A CARTRIDGE, AND A CARTRIDGE



(57) Abstract: The present invention relates to a device for use in a cartridge (9), a cartridge, a use of a device in a cartridge and a system for preparing a liquid solution for a medical procedure. The device comprises a hollow body (24) defined by a wall (50) enclosing a cavity space of the body. The body (24) has a first end (52) and a second end (53), and is provided with a least one slit-shaped opening (55) extending through the wall. The first end is open and adapted for receiving liquid to be introduced into the cartridge. The liquid leaves the device through the slit-shaped opening in a flow direction. The slit-shaped opening has a first extension and a second extension substantially perpendicular to the flow direction and to the first extension. The second extension is significantly shorter than the first extension.

WO 2004/089443 A1



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.